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aTS1577 . A3U52 capz

REPORT NO. 7

Cotton Fiber and Processing Test Results





Agricultural Marketing Service
U.S. DEPARTMENT OF AGRICULTURE
Memphis, Tenn. 38122 November 8, 1974

These reports are published bi-weekly during the harvesting season and will be summarized in a comprehensive report at the end of the crop year. A detailed description of the tests shown in this report may be found in the summary report for the previous season. These reports are available on request from the Standardization Section, Cotton Division, Agricultural Marketing Service, U. S. Department of Agriculture, 4841 Summer Avenue, Memphis, TN 38122.

<sup>1/</sup> Summary of Cotton Fiber and Processing Test Results, Crop of 1973, USDA, AMS, Cotton Division, May 1974.

## COTTON FIBER AND PROCESSING TEST RESULTS, CROP OF 1974

## Discussion of Test Results

Cotton Division laboratories of the Agricultural Marketing Service, USDA, report average fiber properties for all medium staple samples tested through November 1 are finer than samples tested through this period a year ago. Picker and card waste is higher than last season. Yarns spun from these samples show weaker yarn strength and lower appearance grades. Yarn imperfections are fewer than a year ago.

No additional short staple samples were received from the Southwest.

Southeast medium staple samples tested show approximately the same fiber properties as a year ago at this time. Shirley Analyzer nonlint content is less than a year ago. Yarns spun from these samples show a weaker yarn strength. Appearance grades are higher than a year ago. Yarn imperfections are fewer. Average spinning potential yarn number is lower than last season.

Medium staple samples tested from the South Central are less uniform and finer than a year ago. Fiber strength is stronger at both zero gage and 1/8" gage tests. Picker and card waste is higher than last season. Yarn strength is slightly weaker and appearance grades lower. Yarn imperfections are fewer than a year ago.

Medium staple samples tested from the Southwest show about the same fiber properties as a year ago. However, fiber strength is higher at zero gage tests than a year ago. Yarns spun from these samples show lower appearance grades. Yarn imperfections are fewer.

Medium staple samples tested from the West show cottons to be coarser and weaker at both zero gage and 1/8" gage tests. Picker and card waste is higher than last season at this time. Yarn strength is considerably weaker than last season. Yarn appearance grades are higher. Yarn imperfections are fewer.

Long staple samples tested from the Southeast to date are longer, finer and weaker at 1/8" gage strength tests. Comber waste is higher than last season. Yarns spun from these samples show lower apperance grades for both carded and combed yarns. Yarn imperfections were fewer for combed yarns. Average spinning potential yarn number is lower than last season.

South Central long staple samples tested to date show longer, finer and weaker fibers at zero gage test than last season at this time. Shirley Analyzer nonlint content is lower. Comber waste is higher than last season. Yarns spun from these samples show yarn strength to be weaker for both carded and combed yarns. Yarn appearance grades were lower for carded and combed yarns. Average spinning potential yarn number is lower than a year ago.

Only one long staple lot was received from the West.

States	
United	
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points	را
gin	
fiber and processing tests from selected gin points in the United States	4/
from	; 1, 1974
tests	ember
ing	Nov
process	through
and	
83	
Averages of	
-Cotton:	

Table 1.--(

	Spin. Potent.	Yarn No.	45 41	99	- 4 - †9	09	69 62	64 63	m
sults		ections Ya	22 17	25	20 16	25 19	23 13	23 17	
test re		ance ect Index Carded Ya	112 104	106	113	66	109 114	108	2
Processing test results	ar	Lbs. In 22s C	86 06	- 201	106 102	100	122 105	106	4(22s) h
Pr	2 & G	_	6.5	5.8	6.0	5.4 1	4.7 1 5.4 1	5.0	5.0
	S A	Pet.	4.0	33.6	0 0 0 0	0, 0, 9, 8,	8.5 1.0	800	0.5
Fiber test results	ų,	gage G/tex	22	23.33	22	22	26	23	
	ا <sub>يا</sub>	gage Mpsi	88 88	83	87 86	81 84	46 87	84 85	Q
	Mike fine- ness	-	†† 0.0	4.5	4.7	4.t.	7.4	9.4.	. a. o
Fibe	raph 50/2.5	unif.	771 911	46 45	7 <sup>1</sup> 17	†††	74 74 74	46 45	a
	og	span	1.00	1.09	1.10	1.07	1.12	1.10	nt dif- 2/ 2/
	Lots tested	No.	13	15	45 34	25	ω <sub>I</sub> ν	93	
,	Staple group Area, and Crop year		Short Staple: Southwest 1973	Medium Staple: Southeast 1973 1974	South Central 1973 1974	Southwest 1973 1974	West 1973 1974	U.S. Average 1973 1974	Significant dif- ference 2/

Based on a limited number of samples of modal quality Minimum differences considered to be significant for comparisons in this table. These guides are based upon averages of a number of lots and are not applicable to individual samples.

Averages of fiber and processing tests from selected gin points in the United States through November 1, 1974  $_{\rm L}$  (Continued) 1/ (Continued)

Table 1.--Cotton:

	Staple group, Area, and Crop year		Long Staple: Southeast: 1973	South Central: 1973 1974	Significant Difference 2/
_	Lots	No.	<b>4 4</b>	a a	
E	Length Span U	In	1.13	1.14	0.02
Fiber Test	th Unif Mik	Pct.	44	t 5 t 5 t 5 t 5 t 5 t 5 t 5 t 5 t 5 t 5	a
- 1	U U	Rdg.	4.3	9. 4.	0.0
Results	Strength Zero 1/8 gage gag	Mpsi	8 8 8 8	88	N
S	1/8" gage	G/tx	23	77 77	1
	SA Non- lint	Pct.	3.8	8 8 8 0	0.5
	P&C Waste	Pct.	88.1.	8 8 0 4	0.5
	Comber Waste	Pct.	17.2	17.0	0.5
$\mathbf{Pr}_{\mathbf{r}}$	Strength carded combed	Lbs. I	106	112	h (22s)
cessing	Ys gth combed	Lbs.	120	130	4(22s) 2(50s)
Test	Yarn Quality Appearand	Indx	125	125	ſυ
Processing Test Results	rn Quality Appearance carded combed	Lbs. Indx Indx Carded & Combed Yarn	130	130	
	Imprfctns card comb	No.	16	50 S	CV .
	tns	No	18	∞ ∞	a
	SPY	No.	72 63	99	σ

Minimum differences considered to be significant for comparisons in this table. These guides are based upon averages of a number of lots and are not applicable to individual samples. Based on a limited number of samples of modal quality નોબો

Table 2 -- Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1974

Strength Elongation reference Imprfect sor 50s or 22s or 50s or 22s or 50s or 22s or 50s or 22s or 50s tx 12	Gra   Yel	98 PERCENT 2.6 1 3 5.2 99 31 6.3 4.3 110 90 21 14	.3 2 3 5.0 98 31 6.4 4.3 120 90 11 8	95 PERCENT 2 3 5.3 106 34 6.4 4.4 120 90 10 7	3 3 5.0 107 37 6.1 4.5 130 90 7 7	95 PERCENT 3 8.8 78 22 5.3 3.5 110 90 17 13	100 PERCENT 4 6.4 96 30 5.8 4.2 120 90 17 14	98 PERCENT 6.0 99 32 6.4 4.5 120 90 13 10	100 PERCENT 6.9 108 36 6.4 4.4 100 80 23 16	5.4	3 6.0 97 30 6.2 4.1 90 80 29 23		100 PERCENT 2 5.4 111 37 6.6 4.7 110 80 16 13
Raw Stock P & C Strength Elongation Index  Gra Yel Waste 22s or 50s or 22s or 50s or 22  Gra Yel Yel 27 tx 12 tx 1	Gra   Yel	98 PERCENT 2.6 1 3 5.2 99 31 6.3 4.3 110 90	90 PERCENT 2 3 5.0 98 31 6.4 4.3 120 90	95 PERCENT 2 3 5.3 106 34 6.4 4.4 120 90	80 PERCENT 3 5.0 107 37 6.1 4.5 130 90	95 PERCENT 8.8 78 22 5.3 3.5 110 90	100 PERCENT 6.4 96 30 5.8 4.2 120 90	98 PERCENT 99 32 6.4 4.5 120 90 1	100 PERCENT 108 36 6.4 4.4 100 80	100 PERCENT 5.4 108 34 6.2 4.3 110 80	98 PERCENT 6.0 97 30 6.2 4.1 90 80 29		100 PERCENT 5.4 111 37 6.6 4.7 110 80
Raw Stock P & C Strength Elongation Index  Gra Yel Waste 22s or 50s or 22s or 50s or 22  Gra Yel Yel 27 tx 12 tx 1	Gra   Yel	98 PERCENT 2.6 1 3 5.2 99 31 6.3 4.3 110	90 PERCENT 2 3 5.0 98 31 6.4 4.3 120	95 PERCENT 2 3 5.3 106 34 6.4 4.4 120	80 PERCENT 3 5.0 107 37 6.1 4.5 130	95 PERCENT 8.8 78 22 5.3 3.5 110	100 PERCENT 6.4 96 30 5.8 4.2 120 90	98 PERCENT 99 32 6.4 4.5 120	100 PERCENT 108 36 6.4 4.4 100 80	100 PERCENT 5.4 108 34 6.2 4.3 110 80	98 PERCENT 6.0 97 30 6.2 4.1 90 80		100 PERCENT 5.4 111 37 6.6 4.7 110 80
Raw Stock P & C   Strength   Elongation   Index     Gra   Yel   Waste   22s or 50s or 22s or 50s or 22s or 50s     Cra   Yel   Yel   27 tx   12 tx   12 tx   12 tx   12 tx   12 tx   13 tx   13 tx   14 tx   14 tx   14 tx   14 tx   14 tx   15 tx	Gra   Yel	98 PERCENT 2.6 1 3 5.2 99 31 6.3 4.3	90 PERCENT 2 3 5.0 98 31 6.4 4.3	95 PERCENT 2 3 5.3 106 34 6.4 4.4 120	80 PERCENT 3 5.0 107 37 6.1 4.5 130	95 PERCENT 8.8 78 22 5.3 3.5 110	100 PERCENT 6.4 96 30 5.8 4.2 120	98 PERCENT 99 32 6.4 4.5 120	100 PERCENT 108 36 6.4 4.4 100	100 PERCENT 5.4 108 34 6.2 4.3 110	98 PERCENT 6.0 97 30 6.2 4.1 90		100 PERCENT 5.4 111 37 6.6 4.7 110
Raw Stock P & C   Strength   Elongation   Gra   Yel   Waste   22s or 50s or 22s or 50s or 2   27 tx   2 tx   12 tx   2	Gra   Yel	98 PERCENT 2.6 1 3 5.2 99 31 6.3 4.3	90 PERCENT 2 3 5.0 98 31 6.4 4.3	95 PERCENT 2 3 5.3 106 34 6.4 4.4	80 PERCENT 3 5.0 107 37 6.1 4.5	95 PERCENT 8.8 78 22 5.3 3.5	100 PERCENT 6.4 96 30 5.8 4.2	98 PERCENT 99 32 6.4 4.5	100 PERCENT 108 36 6.4 4.4	100 PERCENT 5.4 108 34 6.2 4.3	98 PERCENT 6.0 97 30 6.2 4.1		100 PERCENT 5.4 111 37 6.6 4.7
Raw Stock   P & C   Strength   Elongation     Gra   Yel   Waste   22s or 50s or 22s or 50s     Cra   Yel   27 tx   12 + x   12	Gra   Ye1	98 PERCENT 2.6 1 3 5.2 99 31 6.3	90 PERCENT 2 3 5.0 98 31 6.4	95 PERCENT 2 3 5.3 106 34 6.4	80 PERCENT 3 5.0 107 37 6.1	95 PERCENT 8.8 78 22 5.3	100 PERCENT 6.4 96 30 5.8	98 PERCENT 99 32 6.4	100 PERCENT 108 36 6.4	100 PERCENT 5.4 108 34 6.2	98 PERCENT 6.0 97 30 6.2		100 PERCENT 5.4 111 37 6.6
Raw Stock P & C   Strength     Gra   Yel   Waste   22s or 50s or 2     27 tx   2 + x   2	Gra   Yel	98 PERCE 2.6 1 3 5.2 99 31	90 PERCE 2 3 5.0 98 31	95 PERCE 2 3 5.3 106 34	80 PERCE 3 5.0 107 37	95 PERCE 8.8 78 22	100 PERCE 6.4 96 30	98 PERCE 99 32	100 PERCE 108 36	100 PERCE 5.4 108 34	98 PERCE 6.0 97 30		100 PERCE 5.4 111 37
Raw Stock P & C Gra Yel Waste	Gra Yel was co	2.6 1 3	2 3	2	m			0.9	6.9				
	Gra	2.6 1	7	~		8	4			•	9		~
		5.6			m			т	6	7			
S.A. Non- Lint	Lint Pct	~	6			4	9	7	7	~	~		~
		m,	2	2.5	2.5	5.6	3.9	2.6	3.6	3.9	3.6		2.7
	×ı	STONEVILLE 213	DELTAPINE 16 22 7.9	DELTAPINE 16 23 7.2	COKER 201 23 6.3	COKER 201 21 6.3	DIXIE KING II 21 6.8	DELTAPINE 16 21 7.6	MCNAIR 612 23 6.6	COKER 201 23 6.1	COKER 201 22 6.1		DELTAPINE 16 24 7.2
2	Gage Mpsi	80	78	83	86	18	82	80	83	8	79		87
Mike	Rdg	9	4.4	4.2	4.7	4.7	8.	4.5	4.2	<b>:</b>	4.5		* ?
raph Unif.	Unif.	4 ا	45	\$	7,	43	46	43	24	4	2		2
1		1.09	1.10	1.09	1.15	1.07	1.05	1.09	1.12	1.11	1.13		1.17
Stple	Stple 32s	REA 34	34	34	35	34	34	34	35	35	35	AREA	36
я <u>П</u>		14	/ILLE	ie 41	41	N 51	K SP 42	JRPE 41	OL INA URG 41	OLINA FALLS 41	TTHEWS 41		ARKANSAS ALTHEIMER 1 SLM 41
Number Fibrograph	P 2 0	Stple 2.5% Unif.	de Stple 2.5% Unif.  32s In Pet  AREA  41 34 1.09 45	AREA  IER  41 34 1.00 45  Ale  2.5% Unif.  Pct  AREA  1.09 45	ade & Stple span         2.5% span         Unif.           & Code         32s         In         Pct           AREA         1.09         45           VILLE         34         1.00         45           E         41         34         1.09         45	de Stple 2.5% Unif.  32s	de Stple 2.5% Unif.  32s In Pet  41 34 1.09 45  41 34 1.09 44  41 34 1.09 44  41 35 1.15 45  51 34 1.07 43	Stple   2.5%   Unif.   Stpan   2.5%   Unif.   Stpan   Stpan	de Stple 2.5% Unif.  32s In Pet  AREA  41 34 1.09 45  41 34 1.09 44  41 34 1.09 44  41 35 1.15 45  51 34 1.07 43  42 34 1.05 46  41 34 1.09 43	Stple   S.5%   Unif.     Stple   Span   Pet     Steel   Stpan   Pet     Steel   Steel   Pet     Steel   Steel   Steel     Steel   Steel   Steel	Stple   2.5%   Unif.     32s	AREA  IER 41 34 1.09 45  VILLE 41 34 1.09 45  VILLE 41 34 1.09 45  VILLE 41 34 1.09 44  VILLE 41 34 1.09 43  COLINA 51 34 1.09 43  COLINA 61 35 1.12 45  COLINA 61 35 1.13 45  COLINA 61 35 1.13 45	AREA  41 34 1.09 45  41 34 1.09 45  41 34 1.09 44  41 34 1.07 43  42 34 1.07 43  42 34 1.09 43  41 35 1.12 45  LLS  LLS  S 41 35 1.13 45  LLS  LLS  LLS  LLS  LLS  LLS  LLS  L

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nd medium staple:
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2 Cotton,
Table

	Spin. Poten- tial	No		62	89	65	19	99	56	61	19	69	57	16	55	70	65
	ect'ns 50s or 12 tx	N N		6	11	10	11	16	10	25	11	13	6	6	11	13	7
rns	Imprfectins 22s or 50s or 27 tx 12 tx			11	11	14	20	20	15	56	15	20	10	11	23	15	σ
Carded Yarns	1 5 0	1		90	06	90	70	80	80	09	80	06	90	06	70	80	06
1	Appearance Index 22s or 50s c 27 tx 12 ts			120	120	120	100	06	110	80	110	110	110	110	110	110	130
st Resu	or.	Pct		4.0	4.4	3.8	4.2	4.5	4.3	3.7	4.8	5.2	3.5	6.4	3.3	4.0	4.2
Processing Test Results	Strength Elongation  22s or 50s or 22s or 50s or 27 tx 12 tx	P		100 PERCENT 101 31 5.6	100 PERCENT 106 35 6.1	100 PERCENT 103 31 5.7	100 PERCENT 106 33 5.8	100 PERCENT 108 35 6.7	100 PERCENT 97 30 5.9	100 PERCENT 100 28 5.7	100 PERCENT 115 39 6.8	100 PERCENT 112 38 7.4	90 PERCENT 87 26 5.3	100 PERCENT 109 37 7.0	100 PERCENT 92 25 5.4	100 PERCENT 90 29 5.6	100 PERCENT 98 32 6.1
	72.0	Pct		5.7	5.6	5.8	5.9	5.7	5.5	6.3	5.9	5.9	6.3	5.1	5.9	6.3	5.2
	Color w Stock a Yel	No		e	7	3	8	2	æ	٣	ю	2	2	2	8	2	т
	0 1 . 1	No		7	-	2	-	-	2	-	2	-	4	-	m	4	2
	S.A. Non- Lint	Pct		3 2.8	2.5	3.1	2.4	3.5	3 2.9	3.5	2.1	3.6	3.5	2.8	3 2.9	2.3	2.1
Results	8 # B	G/tex Pct		STONEVILLE 213 22 5.6	DELTAPINE 16 23 7.3	STONEVILLE 21 24 6.6	BRYCOT #4 23 6.0	STONEVILLE 21 23 7.2	STONEVILLE 21 23 6.7	STONEVILLE 7A 24 5.6	DELTAPINE 16 24 7.4	DELTAPINE 16 24 8.9	DELTAPINE 45A 22 6.6	DELTAPINE 16 23 7.6	STONEVILLE 21 22 6.2	DELTAPINE 16 23 7.2	DELTAPINE 16 23 7.1
Test	p p p			S 98	0 68	S 06	91 ;	S1 85	5 78	92	98	85	83 06	83 01	S 78	81	82
Fiber	Z	Mpsi								6	₩.		٣				
		Rdg		4.6	4.2	4.3	4.2	4.4	4.8	3.7	4.1	4.4	4.5	4.3	4.6	4.2	4.7
	al graph Unif.	Pct		45	4	45	46	45	45	42	45	45	45	43	45	ተተ	μ3
	Digital Fibrograph 2.5% Unif	a) In		1111	1.11	1.12	1.12	1.15	1.09	1.13	1.17	1.14	1.08	1.15	1.10	1.15	1.1
	Stple	32s tinue		35	35	35	35	36	35	35	36	35	34	35	34	34	35
rea,	e er	-(Con	inued	41	41	14	41	41	41	41	41	41	51	ENCE 41	ENCE 41	51	41
Production Area, Classification	Sample Number No Grade Name & Code	32s SOUTHEAST AREA(Continued)	ARKANSAS(Continued)	DUMAS 1 SLM	EUDORA 1 SLM	HUGHES 1 SLM	LEACHVILLE 1 SLM	LEACHVILLE 1 SLM	MARIANNA 1 SLM	OSCEOLA 1 SLM	WILSON 1 SLM	WYNNE 1 SLM	LOUISIANA BUNKIE 2 LM	LAKE PROVIDENCE 1 SLM 41	LAKE PROVIDENCE 1 SLM 41	PONROE 1 LM	SHREVEPORT 1 SLM

- 8 -

Spin. Potential 55 99 욁 54 68 62 61 52 9 71 61 10 69 50s or Imprfect'ns 13 12 10 12 O 2 2 12 00 0 œ SI N 22s or 27 tx 16 18 12 13 21 14 14 18 12 1 1 Results - Carded Yarns 읽 100 50s or 80 90 80 80 90 80 2 tx 80 80 9 80 90 Appearance 읽 Index 22s or 27 tx 130 120 110 100 110 120 110 110 120 100 110 90 No 50s or 3.0 12 tx 4.4 3.5 3.7 4.5 4.2 4.0 3.8 4.6 3.7 5.2 4.8 Elongation PctProcessing Test 22s or 50s or 22s or 27 tx 12 tx 27 tx Ibs Pct 5.9 5.7 100 PERCENT 87 23 5.2 6.5 5.3 6.4 9.9 100 PERCENT 100 PERCENT 100 PERCENT 100 PERCENT 100 PERCENT 102 32 5. 100 PERCENT 85 28 5. 100 PERCENT 103 30 5. 100 PERCENT 100 PERCENT 99 31 5. 95 PERCENT 95 PERCENT 28 36 Strength 110 101 109 ೮ Waste 6.5 7.5 7.2 8.6 5.9 9.9 6.2 6.4 5.6 5.6 Pct 7.6 6.8 ج 8 Raw Stock Yel 2 m 2 ~ ~ 읾 2 Color Gra m m 7 m 7 2 2 2 2 2 읽 Lint 3,9 3.7 2.9 S.A. 3.4 3.1 3.1 2.6 3.2 3.5 Non-2.1 Pet STONEVILLE 213
21 6.4 STONEVILLE 213 STONEVILLE 213
23 6.6 STONEVILLE 213 STONEVILLE 213 STONEVILLE 213 STONEVILLE 7A 6.5 6.2 DELTAPINE 25 24 6.1 DELTAPINE 16 DELTAPINE 16 23 7.8 DELTAPINE 16 22 7.7 gat'n 1/8" Elon-Pct DIXIE KING Fiber Test Results G/tex 1/8" Gage 54 23 23 23 Strength Fiber Gage Mpsi Zero 90 86 93 92 83 85 85 89 85 96 83 85 Mike 4.1 4.4 4.6 4.3 4.2 4.5 3.6 4.2 4.6 4.4 4.7 4.6 Rdg Unif. 45 45 42 45 47 44 44 45 43 Digital Fibrograph 45 44 45 Pct 1.08 1.12 1.12 1.09 1.14 1.12 2.5% 1.08 1.06 1.13 1.02 1.13 span SOUTHEAST AREA--(Continued) Stple .35 34 35 35 34 35 35 35 35 35 34 34 LOUISIANA -- (Continued) 9 51 51 41 21 41 42 51 41 21 Production Area, Classification Sample Number WATER VALLEY Grade Name & Code NITTA YUMA MINNSBORD 1 SLM LT SP INDIANOLA 1 LM MISSISSIPPI GLENDORA 1 LM INDIANDLA TRIBBETT 1 LM NATCHEZ 1 LM LELAND 1 SGO WINONA 1 SLM SCOTT SLM LYON 1 SLM No

Table 2 -- Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1974-- (Continued)

	,						- 9	-							
	Spin. Poten-	tial	19	69	75	40		57		61	65	11	10	89	
		50s or 12 tx No	. n	11	11	20		7		10	•	10	60	11	
arns	Imprí	22s or 27 tx No	15	21	24	25		9 41		Ξ	7	16	91	20	
Carded Yarns	ance	No No	80	80	9	70		80		06	06	06	80	09	
1	Appearance Index	27 tx No	120	100	80	100		110		130	120	120	120	80	
Test Results	ation	X C	2.4	4.7	5.0	\$ ?		4.1		4.1	4.5	4.2	4.	4.3	
Processing Te	E10		PERCENT 35 6.7	ENT 7.0	ENT 7.2	ENT 6.5		6.0 5.8		PERCENT 33 6.1	ENT 6.4	PERCENT 34 6.3	ENT 6.2	5.9	
Proce	ngth	Libs tx		PERCENT 35 7.0	PERCENT	PERCENT		PERCENT 30 6. 27 5.			PERCENT 36 6.	PER(	PERCENT	PERCENT	
	Strength	×	94	100	111	106		100 92 89		95	75 108	100	111	101	
	P & C Waste	Pet	5.9	5•3	5.5	5.5		5.9		5.4	5.6	5.1	5.4	5.6	
	Color Raw Stock	IS S	m	~	m	m		~ ~		m	m	8	m	m	
	Co	N S	8	-	-	8				7	1	?	-	-	
	S.A. Non-	Pet	13 2•3	2.6	1.8	2.5		2.7		2.2	1.9	2.0	2.2	2.4	
lts	Elon- gat'n	Pet	STONEVILLE 213 24 7.0	# 6.4	INE 16	ILLE 213 6.3		INE 16 7.4 7.6		INE 61 7.0	INE 61 7.1	INE 16 6.9	INE 66 6.5	INE 61 6.7	
st Results		Gage G/tex	STONEV 24	AUBURN 23	DEL TAPINE 22 7	STONEVILLE 23 6.2		DEL TAP INE 22 7		DELTAPINE 24 7	DELTAPINE 24 7	DELTAPINE 23 6.	DELTAPINE 22 6.	DELTAPINE 61 23 6.7	
Fiber Te	Fiber Strength Zero 1/	Gage	8	81	82	86		83 81		91	4	06	88	82	
	Mike	Rdg	4	3.6	4.0	4.7		4 • • 8 2 • 8		5.4	5.0	5.4	4.0	4.1	
	raph Unif.	Pet	45	3	4	9		4 2		80	† <sub>1</sub> +	45	43	4	
	- 1	In I	1.14	1.10	1.13	.1•12		1.10		1111	1. 13	1.13	1.12	1111	
	Stple	32s Conti	35	35	35	35	AREA	35	AREA	35	35	35	35	35	
Area,		EA(	41	41	14	7	A	24	. <b>a</b>	32	31	41	32	31	
Production Area, Classification	Sample Number Grade	SOUTH CENTRAL AREA-(Continued)	MISSOURI PORTAGEVILLE 1 SLM	SENATH	SENATH	TENNESSEE RIDGELY 1 SLM	SOUTHWEST	CENTRAL TEXAS NAVASOTA 2 SLM LT SP 3 SLM LT SP	_	ARIZONA BUCKEYE I MID LT SP	CASA GRANDE	MARICOPA SLM	PICACHO MIO LT SP	SOMERTON 1 MID	
	S.	Sour	H IS	1 8	2	T EN	SOU	CEN 3	WEST	ARI B	2 .1	<b>x</b>	۵,	1 8	

Table 3 --Cotton, American upland long staple: Quality characteristics by production areas, crop of 1974

1	١.		1					- 10	-		
	Spin.	tial	임		63	63	65		65		16
	t ns	50s or 12 tx	울		12	7	13		16		7.9
arns	Imprfect'ns	22s or 50s or 27 tx 12 tx	울		15	8 9	13		22		19
arded Y	ance	50s or 12 tx	8		90	90	80		02 100		90
Processing Test Results - Carded Yarns	Appearance Index	22s or 27 tx	왕		100	100	120		100		100
t Resul	ion	50s or 12 tx	Pet		5.2	5.0	40		5.0		5.2
ing Tes	Elongation	2s or 5	Pct		N. 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	5.8 6.5	NT 6.1 6.4		NT 6.1 6.6		NT 6.1 6.5
rocess		50s or 22s or 12 tx 27 tx	Lbs		PERCENT 37 6.	PERCENT 34 5.	PERCENT 33 6.		PERCENT 35 6.		PERCE 48 54
	Strength	22s or 5 27 tx 1	Lbs		100 109 126	100 104 122	100 103 120		90 106 126		90 130 145
	P & C	Comber 22s or 50s or 22s or Waste 27 tx 12 tx 27 tx	Pet		7.9	8.4	7.8		8.4		7.0
-	1	Yel W	8		, w <sub>+</sub>	* 1	* 1		* 1		* 1
	Color Raw Stock	Gra Y	8 8		8	7	ю		-		-
					3.1	0.4	3.1		3.2		. 2.2
	S.A.		Ret								
Lts	Elon-	1/8"	Pet		310	310	310		310		1517
Fiber Test Results	er gth	1/8" Gage	G/tex		COKER 23	COKER 22	COKER 22		COKER 24		ACALA 1517 70 26 6.7
iber Te	Fiber Strength	Zero Gage	Mpsi		83	83	80		83		06
E4		Mike	Rdg			*	4.2		<b>;</b>		3.9
	al aph	Unif.	Pct		£ <sup>†</sup>	ή3	<del>\$</del>		\$		4
	Digital Fibrograph	2.5% span	티		1.18	1.15	1.14		1.14		1.16
		Stple	32s	AREA	35	35	36	AREA	35	AREA	36
rea,	er			<	4	45	A 1		7	<	1
Production Area, Classification	& Sample Number	No Grade Name & Code		SOUTHEAST	GEORGIA COMER 1 SLM	MADISON 1 SLM LT SP	SOUTH CAROLINA HARTSVILLE 1 SLM	SOUTH CENTRAL	TENNESSEE TRENTON 1 SLM	WEST	NEW MEXICO BERINO 1 SLM

\* Comber Waste and Combed Yarn Data